BASIC INFORMATION

Name： Jinchi Dong

Date of birth： 1997.04.26

E-mail： dongjinchi@163.com

Research interest： Integrated Assessment Model, Social Cost of Carbon; Climate Change Economics; Environmental Policy evaluation;

EDUCATION

Visiting Ph.D student	2022.09-2023.09	Department of Economics, University of Sussex (Supported by CSC) Supervisor: Professor Richard S.J. Tol (Member of the Academia Europaea), Professor Shqiponja Telhaj
Ph.D. student	2019.09 -	Department of Environmental Planning & Management, School of the Environment, Nanjing University Expected graduation: 2025.03 (5-year Ph.D. Training Program) Supervisor: Professor Jinnan Wang (Academician of Chinese Academy of Engineering), Professor Jun Bi
B.S.	2015.09-2019.06	Department of Environmental Science (Li Siguang Environmental & Recourses Honors program), College of New Energy and Environment, Jilin University

PEER-REVIEWED PUBLICATION

[1] **Dong J**, Cai B, Zhang S, et al. Closing the Gap between Carbon Neutrality Targets and Action: Technology Solutions for China's Key Energy-Intensive Sectors[J]. **Environmental Science & Technology (Q1, IF= 11.4)**, 2023, 57(11): 4396-4405. https://doi.org/10.1021/acs.est.2c08171.

[2] **Dong J**, Tol R S J, Wang F. Towards a social cost of carbon with national characteristics [J].**Economics Letters (Q2, IF= 2.1)**, 2024 (forthcoming). https://doi.org/10.1016/j.econlet.2024.111977.

[3] **Dong, J.,** Liu, M.*, Zhang, W.*, et al. The Effects of Up-down Political Incentives on Bottom-up Public Participation in China. **Journal of cleaner production (Q1, IF= 9.7)**, 2024 (forthcoming).

[4] **Dong, J.**, Wang, X., Cai, B., et al. Mitigation technologies and marginal abatement cost for iron and steel industries in China, **Environmental Engineering**, 2021, 39(10): 23-31+40. DOI:10.13205/j.hjgc.202110004. (In Chinese)

[5] **Dong, J.**, Weng, H., Pang, L., et al. Marginal abatement cost curves and mitigation technologies for petrochemical and chemical industries in China, **Environmental Engineering**, 2021, 39(10): 32-40. DOI:10.13205/j.hjgc.202110005. (In Chinese)

[6] Cai, B., Lv, C., **Dong, J.**, et al. Research method for carbon peak path in key industries/sectors, **Research of Environmental Sciences**. 2022,35(02):320-328.DOI:10.13198/j.issn.1001-6929.2021.11.05. (In Chinese)

[7] Zhu, S., Liu, H., **Dong, J.,** et al. Mitigation technologies and marginal abatement cost curves for cement industry in China. **Environmental Engineering**, 2021, 39(10): 15-22. DOI:10.13205/j.hjgc.202110003. (In Chinese)

[8] Yang, L., Yang, X., Liu, H., Xia, C., Cai, B., **Dong, J.** Carbon dioxide emission reduction technology screening and cost study in building sector of China. **Environmental Engineering**, 2021, 39(10): 41-49. DOI:10.13205/j.hjgc.202110006. (In Chinese)

[9] Liu, H., Cai, B., Zhang, L., Wang, Z., Chen, Y., Xia, C., Yang, L., **Dong, J.,** et al. Research on carbon dioxide abatement technologies and cost in China's power industry. **Environmental Engineering**, 2021, 39(10): 8-14. DOI:10.13205/j.hjgc.202110002. (In Chinese)

[10] Zhang, L., Meng, R., Jin, S., Pan, Z., Zhou, J., **Dong, J.,** et al. Protecting wildlife by the strictest instruments: China's current situation and reform direction. **Chinese Journal of Environmental Management**, 2020, 12(02): 5-19. DOI:10.16868/j.cnki.1674-6252.2020.02.005. (In Chinese)

WORKING PAPERS

[1] **Dong, J.,** Tol R S J*. Wang, J.*. The Effects of Climate Conditions on Economic Output: Growth versus Level Effects.

Estimating the effects of climate on economic output is crucial for formulating climate policy, but current empirical findings remain ambiguous. We extend the long-difference model to account for time-invariant factors affecting output growth and utilize global subnational data from over 1,600 regions across 196 countries to generate new estimates. We find a significant effect of temperature on output growth in poor regions and a significant effect of precipitation on output growth in rich regions. Given that poor regions are typically hot and that precipitation consistently has a positive effect on rich regions, it is expected that rich regions become richer while poor regions become poorer, leading to a profound climate inequality in the future.

RESEARCH REPORTS

[1] Wang, J., **Dong, J,** Cai, B. A review of the social cost of Carbon. (**Submitted to Minister of Ecology and Environment**)

[2] Wang, J., Liu, M., **Dong, J.,** Bi, J. Effects of air pollution control on economic development: A comparative empirical analysis based on the Central Environmental Inspection and COVID-19 epidemic. (**Submitted to Vice Minister of Ecology and Environment**)

[3] Wang, J., Liu, M., Bi, J., Yan, G., **Dong, J.,** et al. Synergistic effect of environmental control and economic development: A city-level empirical analysis in China. (**Submitted to Minister of Ecology and Environment**)

TECHNOLOGY

Integrated Assessment Model	MESSAGE_*ix*, FUND model; FaIR model;MESMER model
software	R, Stata; Python, Jupyter Notebook; ArcGIS; Adobe Illustrator, MS Visio;
English Skill	IELTS 6.5

基本信息

姓名： 董金池 **籍贯：** 山西省运城市

出生日期： 1997.04.26

E-mail： dongjinchi@163.com

研究方向： 气候变化综合评估模型；碳排放社会成本；气候变化经济学；环境政策评估

学习经历

访问博士生	2022.09-2023.09	英国萨塞克斯大学经济系 (国家留学基金委资助) 导师: Professor Richard S.J. Tol (欧洲科学院院士)； Professor Shqiponja Telhaj
研究生	2019.09 -	南京大学环境学院（直博生） 导师: 王金南教授 （中国工程院院士）; 毕军教授
本科	2015.09-2019.06	吉林大学新能源与环境学院环境科学系 (李四光试验班)

发表论文

[1] **Dong J**, Cai B, Zhang S, et al. Closing the Gap between Carbon Neutrality Targets and Action: Technology Solutions for China's Key Energy-Intensive Sectors[J]. **Environmental Science & Technology (Q1, IF= 11.4)**, 2023, 57(11): 4396-4405. https://doi.org/10.1021/acs.est.2c08171.

[2] **Dong J**, Tol R S J, Wang F. Towards a social cost of carbon with national characteristics [J].**Economics Letters (Q2, IF= 2.1)**, 2024 (forthcoming). https://doi.org/10.1016/j.econlet.2024.111977.

[3] **Dong, J.,** Liu, M.*, Zhang, W.*, et al. The Effects of Up-down Political Incentives on Bottom-up Public Participation in China. **Journal of cleaner production (Q1, IF= 9.7)**, 2024 (forthcoming).

[4] **董金池**,汪旭颖,蔡博峰,等. 中国钢铁行业 CO_2 减排技术及成本研究 [J]. **环境工程**, 2021, 39 (10): 23-31+40. DOI:10.13205/j.hjgc.202110004.

[5] **董金池**,翁慧,庞凌云,等. 中国石化和化工行业二氧化碳减排技术及成本研究 [J]. **环境工程**, 2021, 39 (10): 32-40. DOI:10.13205/j.hjgc.202110005.

[6] 蔡博峰,吕晨,**董金池**,等. 重点行业/领域碳达峰路径研究方法 [J]. **环境科学研究**, 2022, 35 (02): 320-328. DOI:10.13198/j.issn.1001-6929.2021.11.05.

[7] 朱淑瑛,刘惠,**董金池**,等. 中国水泥行业二氧化碳减排技术及成本研究 [J]. **环境工程**, 2021, 39 (10): 15-22. DOI:10.13205/j.hjgc.202110003.

[8] 杨璐,杨秀,刘惠, 夏楚瑜, 蔡博峰, **董金池**,等. 中国建筑部门二氧化碳减排技术及成本研究 [J]. **环境工程**, 2021, 39 (10): 41-49. DOI:10.13205/j.hjgc.202110006.

[9] 刘惠,蔡博峰,张立, 王真, 陈阳, 夏楚瑜, 杨璐, **董金池**等. 中国电力行业 CO_2 减排技术及成本研究 [J]. **环境工程**, 2021, 39 (10): 8-14. DOI:10.13205/j.hjgc.202110002.

[10] 张丽荣,孟锐,金世超, 潘哲, 周佳, **董金池**,等. 实施最严格的野生动物保护：中国现状与改革方向 [J]. **中国环境管理**, 2020, 12 (02): 5-19. DOI:10.16868/j.cnki.1674-6252.2020.02.005.

工作论文

[1] **Dong, J.,** Tol R S J*. Wang, J.*. The Effects of Climate Conditions on Economic Output: Growth versus Level Effects.

Estimating the effects of climate on economic output is crucial for formulating climate policy, but current empirical findings remain ambiguous. We extend the long-difference model to account for time-invariant factors affecting output growth and utilize global subnational data from over 1,600 regions across 196 countries to generate new estimates. We find a significant effect of temperature on output growth in poor regions and a significant effect of precipitation on output growth in rich regions. Given that poor regions are typically hot and that precipitation consistently has a positive effect on rich regions, it is expected that rich regions become richer while poor regions become poorer, leading to a profound climate inequality in the future.

研究报告

[1] 王金南, 董金池**,** 蔡博峰. 碳排放社会成本评估. (获得生态环境部黄润秋部长批示)
[2] 王金南, 刘苗苗, 董金池, 毕军. 中央环保督察与 COVID-19 疫情两种情景下大气污染治理经济影响比较实证研究. (获得生态环境部翟青副部长批示)
[3] 王金南, 刘苗苗, 毕军, 王东, 雷宇, 张清宇, 董金池**,** et al. 中国 2015-2018 年城市环境治理与经济发展关系实证研究. (获得生态环境部黄润秋部长批示)

技能

综合评估模型	MESSAGE_*ix*, FUND model; FaIR model;MESMER model;
软件技能	R, Stata; Python, Jupyter Notebook; ArcGIS; Adobe Illustrator, MS Visio;
英语能力	IELTS 6.5